

## CLAIMS

What is claimed is:

- 1           1.    A swage mount for a recording head suspension  
2 comprising:  
3           a flange;  
4           a hub made of a base metal extending from the flange, the  
5 hub having at least one surface protrusion;  
6           at least an outer surface of the hub being plated with a  
7 first metal plating that has a thickness ranging from two fifths  
8 of the height of the protrusion to twice the height of the  
9 protrusion.
- 1           2.    The swage mount of claim 1 wherein the surface  
2 roughness, Ra, of the first metal plating is at least 5% of the  
3 thickness of the first metal plating.
- 1           3.    The swage mount of claim 1 wherein the first metal  
2 plating is harder than the base metal by at least 5 Vickers  
3 hardness numbers.
- 1           4.    The swage mount of claim 1 comprising a second metal  
2 plating, applied over the first metal plating.

1           5.    The swage mount of claim 1 wherein the first metal  
2   plating has a thickness in the range 0.01 to 9 microns.

1           6.    The swage mount of claim 1 wherein the first metal  
2   plating has a thickness in the range 0.2 to 20 microns.

1           7.    The swage mount of claim 1 wherein the first metal  
2   plating has a thickness in the range 0.01 to 4 microns.

1           8.    The swage mount of claim 1 wherein the first metal  
2   plating has a thickness in the range 0.2 to 10 microns.

1           9.    The swage mount of claim 3 wherein the base metal  
2   comprises stainless steel and the first metal plating comprises  
3   nickel.

1           10.   The swage mount of claim 4 wherein the second metal  
2   plating is harder and thinner than the first metal plating.

1           11.   The swage mount of claim 4 wherein the second metal  
2   plating comprises a material selected from the group consisting  
3   of rhodium, platinum, cadmium, chromium, tungsten, and nickel.

1           12.   A method of providing a metal layer on the boss of a  
2   swage mount comprising:  
3        activating the boss metal, and

4       subjecting the boss to a first metal plating bath,  
5       wherein the step of subjecting is terminated after the  
6 metal layer achieves a thickness of 0.01 microns but before the  
7 metal layer achieves a thickness of 20 microns.

1       13. The method of claim 12 wherein the step of subjecting  
2 is terminated after the metal layer achieves a thickness of 0.01  
3 microns but before the metal layer achieves a thickness of 9  
4 microns.

1       14. The method of claim 12 wherein the step of subjecting  
2 is terminated after the metal layer achieves a thickness of 0.2  
3 microns but before the metal layer achieves a thickness of 20  
4 microns.

1       15. The method of claim 13 wherein the step of subjecting  
2 is terminated after the metal layer achieves a thickness of 0.01  
3 microns but before the metal layer achieves a thickness of 4  
4 microns.

1       16. The method of claim 14 wherein the step of subjecting  
2 is terminated after the metal layer achieves a thickness of 0.2  
3 microns but before the metal layer achieves a thickness of 10  
4 microns.

1        17. A swage mount for a recording head suspension  
2 comprising:  
3        a flange;  
4        a hub extending from the flange;  
5        the hub having plating means for securing protrusions.

1        18. The swage mount of claim 17 wherein the plating means  
2 is a means for securing chromium carbide protrusions.

1        19. The swage mount of claim 17 wherein the plating means  
2 is a means for securing chromium nitride protrusions.

1        20. The swage mount of claim 17 wherein the plating means  
2 is a means for securing embedded media protrusions.

1        21. A swage mount for a recording head suspension  
2 comprising:  
3        a flange;  
4        a hub extending from the flange;  
5        the hub having plating means for securing material  
6 inclusions in the base metal.

1        22. A swage mount for a recording head suspension  
2 comprising:  
3        a flange;

4 a hub extending from the flange;  
5 the hub having plating means for covering protrusions.

1 23. The swage mount of claim 22 wherein the plating means  
2 is a means for covering embedded media protrusions.

1 24. A swage mount for a recording head suspension  
2 comprising:  
3 a flange;  
4 a hub extending from the flange;  
5 the hub having plating means for covering material  
6 inclusions in the base metal.

1 25. A swage mount for a recording head suspension in a  
2 disc drive comprising:  
3 a flange;  
4 a hub extending from the flange;  
5 the hub including plating means for reducing particulate  
6 contamination in the disc drive.

1 26. A swage mount for a recording head suspension  
2 comprising:  
3 a flange;  
4 a hub made of a base metal extending from the flange;

5           the hub including plating means for reducing corrosion of  
6   the base metal.

1           27. A swage mount for a recording head suspension

2   comprising:

3           a flange;

4           a hub made of a base metal extending from the flange;

5           the hub including plating means for increasing retention

6   torque.